

Our purpose... To enhance your individual and collective knowledge about classroom assessment practices that lead to higher levels of student achievement.

Day #1 Learning Outcomes... o Gain an awareness of the research regarding classroom assessment. o Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom. o Learn essential practices for classroom assessment: 1) Identify priority standards for informing classroom assessment development. 2) Provide clear understanding of the learning goal through proficiency scale development. 3) Provide instruction that focuses on the learning goal. 4) Provide frequent and meaningful feedback.5) Provide opportunities for students to set goals, reflect on learning, and track their own progress. o Learn about common assessment development for monitoring student progress to essential content. Learn data analysis practices related to classroom assessment. MARZANO Research 888.849.0851 marzanoresearch.com HANDOUT PAGE 2

Research by Jorissen, 2006	
"Most teachers say they develop	
their assessment knowledge and	
practices on the job."	
888.849.0851 marzanoresearch.com	
	_
]
Research by Rick Stiggins, 2008	
"We have trusted those we	
believe to be more knowledgeable	
in test item development to	
develop our assessments."	
(textbook and test-making	
companies)	
888.849.0851 marzanoresearch.com MARZANO Research	
888.849.0851 marzanoresearch.com MARZANO Research	
	1
Popham and Stiggins, 2008	
"We have misunderstood the	
significance and hence slighted	
the purpose of daily classroom	
assessment."	
888.849.0851 marzanoresearch.com	

Day #1 Learning Outcomes	
 Gain an awareness of the research regarding classroom assessment. Understand the differences among obtrusive, unobtrusive, and student-generated assessments and how to use each in the classroom. Learn essential practices for classroom assessment: 	
Identify priority standards for informing classroom assessment development. Provide clear understanding of the learning goal through proficiency scale development.	
3) Provide instruction that focuses on the learning goal. 4) Provide frequent and meaningful feedback. 5) Provide opportunities for students to set goals, reflect on learning,	
and track their own progress. Learn about common assessment development for monitoring student progress to essential content. Learn data analysis practices related to classroom assessment.	
888.849.0851 marzanoresearch.com HANDOUT PAGE 2	
	1
Classroom assessment is	
Anything a teacher does to gather information about a student's knowledge	
or skill regarding a specific topic.	
Marzano, R. (2010) Formative Assessment and Standards-Based Grading, Bloomington, IN, Marzano Research Laboratory 888.846.0851 marzanoresearch.com MARZANO Research	
Why should we do it?	
Assessment results are one type of feedback!	
Hattie and Timperley (2007) synthesized the most current and comprehensive research in feedback and summarized findings. They calculated an overall average effect size of 0.79, translating to a 29	
percentile point gain.	
Another way of saving this is that a student at the 50th	

percentile in a classroom where feedback was not provided would be predicted to rise to the 79th percentile if he or she was provided with feedback.

Why should we do it?

In a research review based on 250 empirical studies of classroom assessment that had been drawn from more than 800 published investigations, Paul Black and Dylan William concluded:

"The research reported here shows conclusively that formative assessment does improve learning."

888.849.0851 marzanoresearch.com



Why should we do it? WYOMING DEPARTMENT OF EDUCATION DISTRICT ASSESSMENT SYSTEM ANNUAL REPORT MARZANO Research

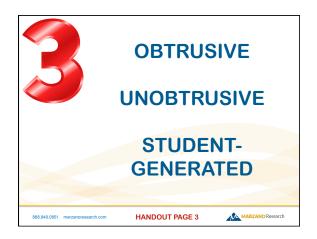
Day #1 Learning Outcomes...

- o Gain an awareness of the research regarding classroom assessment.
- o Understand the differences among obtrusive, unobtrusive, and student-generated assessments and how to use each in the classroom.
- $\circ\,$ Learn essential practices for classroom assessment:
 - 1) Identify priority standards for informing classroom assessment development.
 - 2) Provide clear understanding of the learning goal through proficiency scale development.
 - 3) Provide instruction that focuses on the learning goal.

 - 4) Provide frequent and meaningful feedback.5) Provide opportunities for students to set goals, reflect on learning, and track their own progress.
- o Learn about common assessment development for monitoring student progress to essential content.
- Learn data analysis practices related to classroom assessment.

HANDOUT PAGE 2





Three Types of Assessment Obtrusive • Formalized, interrupt the normal flow of activity in the classroom -pencil/paper tests, projects, quiz

Three Types of Assessment Unobtrusive Informal, do not interrupt the normal flow Observations, listening for key ideas, watching for key actions or processes **MARZANO Research**

Three <i>Types</i> of Assessment	
Student-Generated	
Students generate their own ideas to show their current level of knowledge or skill	
D.Z.C.TY	
888.849.0851 marzanoresearch.com	-
As we make decisions	
about student learning, we	
can <i>never</i> rely on a single	
assessment.	
•	
888.849.0851 misrzanoresearch.com MARZANO Research	
All assessments have	
measurement error.	
Observed score = true score + error	

MARZANO Research

What are some sources of measurement error?

- Student not feeling well on the day of the assessment.
- Poor test questions
- Visual and verbal distractions
 - Fire drill, bee in the room, window open, SNOW!!!
- Too many assessments on the same day!!
- Biological accidents
- Biased test questions
- Inadequate opportunity to learn

888.849.0851 marzanoresearch.com



Day #1 Learning Outcomes...

- o Gain an awareness of the research regarding classroom assessment.
- Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom.
- o Learn essential practices for classroom assessment:
 - 1) Identify priority standards for informing classroom assessment development.
 - 2) Provide clear understanding of the learning goal through proficiency scale development.
 - 3) Provide instruction that focuses on the learning goal.
 - Provide frequent and meaningful feedback.
 - 5) Provide opportunities for students to set goals, reflect on learning, and track their own progress.
- Learn about common assessment development for monitoring student progress to essential content.
- Learn data analysis practices related to classroom assessment.

888.849.0851 marzanoresearch.com

HANDOUT PAGE 2





An Important Action Step...

Identify priority learning goals (a.k.a. priorities, power standards, critical understandings) within the curriculum.



What the Research Says about Learning Goals...

Learning targets convey to students the **destination for the lesson**—what to learn, how deeply to learn it, and exactly how to demonstrate their new learning. In our estimation (Moss & Brookhart, 2009) and that of others (Seidle, Rimmele, & Prenzel, 2005; Stiggins, Arter, Chappuis, & Chappuis 2009), the intention for the lesson is one of the most important things students should learn. **Without a precise description of where they are headed, too many students are "flying blind."**

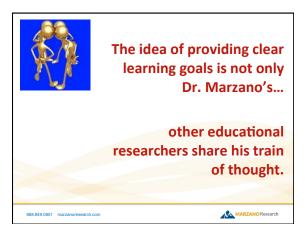
Moss, Brookhart, Long (2011). Knowing Your Learning Target. Educational Leadership. 68 (6). Pp. 66-69

HANDOUT PAGE 5

The starting place for all effective instruction is designing and communicating clear learning goals.

Marzano (2009)

Our collective goal is that the largest possible percentage of our



that of others (Seidle, Rimmele, & Prenzel, 2005; Stiggins, Arter, Chappuis, & Chappuis 2009), the intention for the lesson is one of the most important things students should learn. Without a precise description of where they are headed, too many students are "flying blind."

Moss, Brookhart, Long (2011). Knowing Your Learning Target. Educational Leadership. 68 (6). Pp. 66-69

The starting place for all effective instruction is designing and communicating clear learning goals.

Marzano (2009)

Our collective goal is that the largest possible percentage of our students get there. To reach that goal we must define for ourselves and for them where "there" is. Any energy you invest in becoming clear about your targets will pay dividends...

Stiggins (1994)

Our collective goal is that the largest possible percentage of our students get there. To reach that goal we must define for ourselves and for them where "there" is. Any energy you invest in becoming clear about your targets will pay dividends...

Stiggins (1994

If teachers aren't sure of instructional goals, their instructional activities will not be focused, and unfocused instructional activities do not engender student learning.

Marzano (2009)

Marzano Research 2015 * marzanoresearch.co

888.849.0851 marzanoresearch.com





Priority Learning Goal The learner will tell and write timefrom analog and digital clocks to thenearest five minutes, using a.m. and. 7.m. WHAT?

- WHAT must ALL students know and be able to do by the end of the year?WHAT must I monitor progress to (assess)?
- WHAT will inform the feedback I offer my students?

888.849.0851 marzanoresearch.com

MARZANO Research



Criteria for Prioritized Standards

HANDOUT PAGE 6

Before teams begin to identify prioritized standards, they must understand the criteria for determining which standards should be prioritized. According to Larry Ainsworth (2003), there are three criteria to consider when determining which standards to prioritize:

- Endurance—Knowledge and skills that will last beyond a class period or course
- Leverage—Knowledge and skills that cross over into many domains of learning
- 3. Readiness—Knowledge and skills important to subsequent con-

Our experience has indicated that two additional criteria should also be considered:

- 1. **Teacher judgment**—Knowledge of content area and ability to identify more- and less-important content
- 2. Assessment—Student opportunity to learn content that will be assessed

As an example of how teachers can evaluate a specific standard for these five criteria,



Determine the main idea of a text; recount the key details and explain how they support the main idea.

888.849.0851 marzanoresearch.com



The process of prioritizing standards helps to determine what is monitored in the classroom through one of the three kinds of assessment.

888.849.0851 marzanoresearch.com

M	MARZANO	Researc
---	---------	---------

Day #1 Learning Outcomes...

- o Gain an awareness of the research regarding classroom assessment.
- o Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom.
- o Learn essential practices for classroom assessment:
 - ${\bf 1)}\ \ {\bf Identify\ priority\ standards\ for\ informing\ classroom\ assessment}$ development.
 - 2) Provide clear understanding of the learning goal through proficiency scale development.

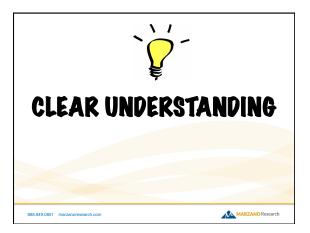
 3) Provide instruction that focuses on the learning goal.

 - 4) Provide frequent and meaningful feedback.
 - 5) Provide opportunities for students to set goals, reflect on learning, and track their own progress.
- Learn about common assessment development for monitoring student progress to essential content.
- Learn data analysis practices related to classroom assessment.

HANDOUT PAGE 2







1	2

Let's move priority standards to a very usable format that provides instructional information and serves as a foundation for assessment development...

Proficiency Scales.

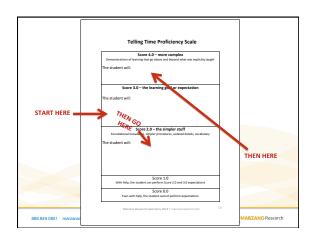


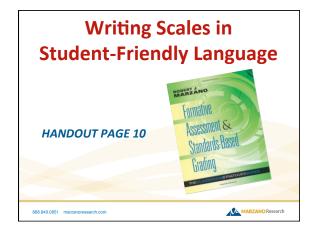
The student will be able to:
 Write compound-complex sentences in isolation.
 Write a simple sentence with a subject and a predicate.
 Write a variety of complete sentences with fluidity.

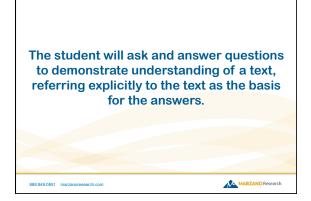
	Proficiency Scale
4	HANDOUT PAGE 8 In addition to exhibiting level 3 performance, in-depth
	inferences and applications that go BEYOND what was taught in class
3	No major errors or omissions regarding any of the
	information and/or processes (SIMPLE OR COMPLEX) that were explicitly taught
2	No major errors or omissions regarding the SIMPLER details and processes BUT major errors or omissions regarding the
	more complex ideas and processes
1	With HELP, a partial knowledge of some of the simpler and
0	complex details and processes Even with help, no understanding or skill demonstrated
888.849.0851	marzanoresearch.com MARZANO Research
	Proficiency Scale
4	In addition to exhibiting level 3 performance, in-depth
	inferences and applications that go BEYOND what was taught in class
3	No major errors or omissions
Learning Goal	
්ම	and/or processes (SIMPLE OR
-A.	COMPLEX) that were explicitly
	<mark>→</mark>
2	taught No major errors or omissions regarding the SIMPLER details
	and processes BUT major errors or omissions regarding the
1	more complex ideas and processes With HELP, a partial knowledge of some of the simpler and
	complex details and processes
0	Even with help, no understanding or skill demonstrated
	Proficiency Scale
4	In addition to exhibiting level 2
-	In addition to exhibiting level 3
	performance in the name of the
	what was taught in class
3	No major errors or omissions regarding any of the information and/or processes (SIMPLE OR COMPLEX) that
2	were explicitly taught No major errors or omissions regarding the SIMPLER details
_	and processes BUT major errors or omissions regarding the
1	more complex ideas and processes With HELP, a partial knowledge of some of the simpler and
1	complex details and processes

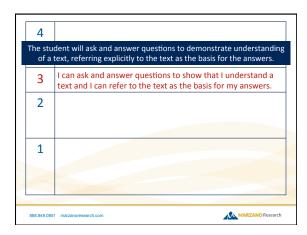
	Proficiency Scale		
4	In addition to exhibiting level 3 performance, in-depth inferences and applications that go BEYOND what was taught in class		
3	No major errors or omissions regarding any of the information and/or processes (SIMPLE OR COMPLEX) that were explicitly taught		
No major errors or omissions			
Prerequisites	egarding the vocabulary in increases BU vocabulary in increases BU vocabulary		
	complex ideas and processes		
1	With HELP, a partial knowledge of some of the simpler and complex details and processes		
0	Even with help, no understanding or skill demonstrated		

	Proficiency Scale	
4	In addition to exhibiting level 3 performance, in-depth inferences and applications that go BEYOND what was taught in class	
3	No major errors or omissions regarding any of the information and/or processes (SIMPLE OR COMPLEX) that were explicitly taught	
2	No major errors or omissions regarding the SIMPLER details and processes BUT major errors or omissions regarding the more complex ideas and processes	
1	With HELP, a partial knowledge of some of the simpler and complex details and processes	
0	Even with help, no understanding or skill demonstrated	









4	I can ask and answer questions to show that I understand a
	beyond grade-level text.
	I can infer answers to questions about a beyond grade-level text and identify in the text evidence for my answer.
2	I can ask and answer questions to show that I understand a
3	text and I can refer to the text as the basis for my answers.
2	I can tell the meaning of words such as answer, ask, basis,
_	detail, explicit, question, refer, text.
	I can answer teacher-provided questions to show that I understand a text.
	With help from my teacher or someone else, I can identify
1	the meaning of words such as answer, ask, detail, question,
	refer, text.
	With help from my teacher or someone else, I can identify
	the answer to teacher-provided questions about a text.
	A
888.849.08	151 marzanoresearch.com MARZANO Research
Ge	etting to "Student-Friendly Language"
• Do	this in cooperation with the students.
• Do	one scale at a time.
• C+	art by avalaining contant and performance at
	art by explaining content and performance at
	vels 3, 2, and then 4.
• W	hen possible, have the class participate in
rev	writing the content at each score value in a
	anner that makes it clear for the student.
	and the makes it died for the student.
	Formative Assessment and Standards-Based Grading, pages 45-46
	0.1.00
888 940 0	151 marzanoresearch.com MARZANO Research
000.049.08	THE AREA CONTROL OF THE AR
	Discussion Questions
	(1)5
	1) What is meant by a
	proficiency scale being
	written in "student- friendly
	language?"
	ialiguage:

2) What benefit may result from asking students to be involved in rewriting scales in

MARZANO Research

student-friendly language?

Day #1 Learning Outcomes...

- o Gain an awareness of the research regarding classroom assessment.
- o Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom.
- o Learn essential practices for classroom assessment:
 - 1) Identify priority standards for informing classroom assessment development.
 - 2) Provide clear understanding of the learning goal through proficiency scale development.
 - 3) Provide instruction that focuses on the learning goal.
 - 4) Provide frequent and meaningful feedback.
 - 5) Provide opportunities for students to set goals, reflect on learning, and track their own progress.
- Learn about common assessment development for monitoring student progress to essential content.
- Learn data analysis practices related to classroom assessment.

HANDOUT PAGE 2



Our Working Lunch Activity...

- 1) Please use pages 23 and 24 in your handout.
- 2) Complete "The Four W's" protocol during the lunch break.
- 3) Be prepared to share your thoughts with others following lunch.

888.849.0851 marzanoresearch.com



Four "W"s Text Protocol

Adapted from Four "A"s Text Protocol from Judith Gray, Seattle, WA 2005

- $1. \ \ Read \ the \ text \ silently, highlighting \ it \ and \ writing \ notes \ in \ the \ margin \ in \ answer \ to$ the following four questions:

 - What Wisdom is shared in the text?
 What content do you Wrestle with in the text?

 - What in the text causes you to Wonder?
 What in the text can you Weave into your work?
- 2. Upon cue, have each person identify one piece of wisdom in the text, citing the
- 3. Move through the remaining three questions, making sure each person's voice is

Day #1 Learning Outcomes... o Gain an awareness of the research regarding classroom assessment. o Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom. o Learn essential practices for classroom assessment: 1) Identify priority standards for informing classroom assessment development. 2) Provide clear understanding of the learning goal through proficiency scale development. 3) Provide instruction that focuses on the learning goal. 4) Provide frequent and meaningful feedback. 5) Provide opportunities for students to set goals, reflect on learning, and track their own progress. Learn about common assessment development for monitoring student progress to essential content. Learn data analysis practices related to classroom assessment.

HANDOUT PAGE 2

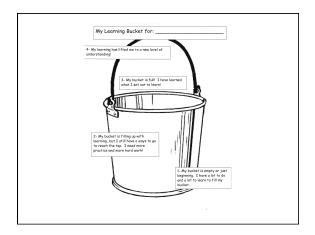
888.849.0851 marzanoresearch.com

MARZANO Research

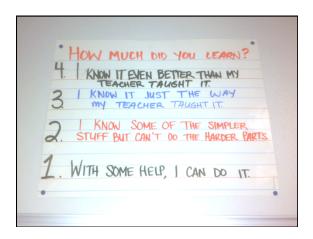
An important idea... Proficiency scales provide clear focus for instruction to learning goals. **BABABORSI** MAZZANORSISANCH MANDOUT PAGE 12** **MARZANORSISANCH MANDOUT PAGE 12** **MARZANORSIS

It is critical that we use scales frequently with our learners to ensure that they understand what they need to know and be able to do.

How do we teach our students about proficiency scales?

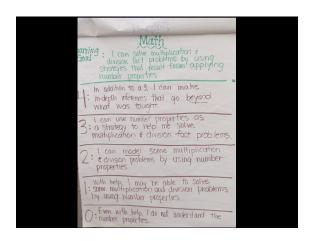












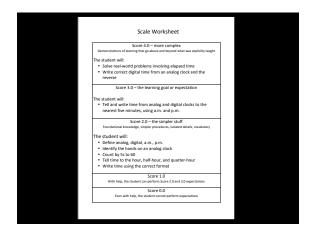
Another important idea... Proficiency scales serve as the framework for a high-quality classroom assessment.

Three types of assessment items to measure the knowledge and skills defined...

Level 2 items: Simpler details and processes that have been explicitly taught

Level 3 items: Complex ideas and processes that have been explicitly taught

Level 4 items: Inferences and applications that go beyond what was taught



•	10 15	(keep going)
. Fill in each	blank to finish the description abo	ut one of the hands on the clock.
The le	ager hand on the clock is called the	
THE IO	nger nand on the clock is called the	· ————————————————————————————————————
The sh	orter hand on the clock is called th	e .
1116 311	orter riand on the clock is called th	·
Dond onch	time and write it in the box using t	he correct format
. Reuu eutii	time and write it in the box asing t	ne correct jornat.
	Time	Correct Format
	Time Four o'clock	Correct Format
		Correct Format
	Four o'clock Forty-five minutes past eight	Correct Format
	Four o'clock	Correct Format
	Four o'clock Forty-five minutes past eight	Correct Format
	Four o'clock Forty-five minutes past eight	Correct Format

Please use pages 37-39 in your handout. Spend a bit of time on your own to familiarize yourself with the content on these three pages When ready, please work with your elbow partner(s) to determine the degree that the

Let's explore this idea a bit further...

partner(s) to determine the degree that the assessment items align to language on the proficiency scale.

888.849.0851 marzanoresearch.com MARZANO Research

A Di	fferen	t Assessm	ent Design	
Name:		Date:	Period:	
		I <mark>nit 1A Test – Algebra 1:</mark> Free F	Response	
	(Multiple Rep	resentation, Domain & Range, Crea	ite & Analyze Graphs)	
Read the question carefully and answer each question. The following are three different relations (mapping, graph and table). For each relation provide the Domain, Range, "Is the relation a Function: yes or no?" and explain why the relation is 1007 a Function.				
	the domain and rangunction. Explain.	Domain (L3):	Explain (L3):	
2. (DR)	x y 8 8 6 6 4 4 2 6 0 8	Domain (L3): Range (L3): Function: yes or no? (L2):		

23

A third important idea... Proficiency scales ensure alignment of curriculum, instruction, assessment, and feedback.

Have you ever received feedback like this?

Perdinand Magellan

Ferdinand Magellan was born in Sabrosa, Portugal in the spring of 480. He was raised in the northern province of Minho. He was enrolled in proving School for Pages when he was 12 years old. If elearned about mapmaking, astronomy, and celestial navigation. Magellan heard about how Bartholomeu Dias had rounded the bottom of Africa, and how Christopher Columbus reached some of the islands of the New World. He heard about Vasco da Gama sailed around Africa and crossed the Indian Ocean to India and the Spice Islands. These explorations caused Magellan to dream about the day when he would search for enu places.

dream about the day when he would search for new places.

After a long process, Magellan finally got approval from King Charles to set out on his voyage. Five tall, square-rigged ships were built for the voyage. They were the San Antonio, the Victoria, the Concepcion, the Santiago, and the Trinidad.

At the last minute, Antonio Pigafetta Joined the crew. He turned out to be a

What makes for **effective** feedback?

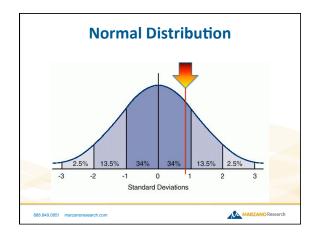
- Timely
- Specific and clear
- Corrective
- Fosters a growth mindset

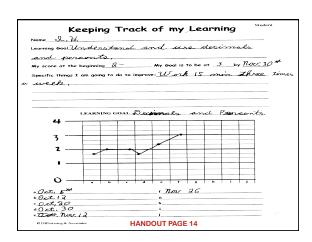
888.849.0851 marzanoresearch.com

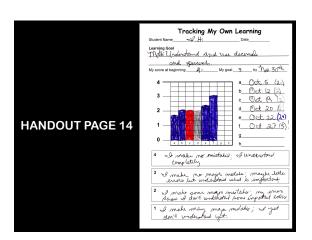
_	-

ONE INDIVIDUAL STUDENT'S RESULTS
• Score 2.0
- Student answered all the items/tasks correctly
• Score 3.0
Student answered a portion of the items/tasks
correctly
• Score 4.0
 Student did not answer any of the items/tasks
correctly
888.849.0851 marzanoresearch.com
Recognize and Celebrate Growth
 Knowledge gain is the currency of
student success in a formative
assessment system.
assessment system.
 When knowledge gain has been
recognized, it can be legitimately
celebrated.
celebratea.
888.849.0851 marzanoresearch.com MARZANO Research
Having Students Chart Progress on
Learning Goals
0
48 experimental—control studies were conducted at
Marzano Research Laboratory.
This practice is associated with a 32-percentile
point gain in student achievement.

MARZANO Research







																	,	lame		_		_	_	_	
												glish Track													
Essential Learning 1, 47 Essency Analysis. The learner is alle to multyre, interpret and evaluate texts in a variety of genres, in a variety of interrup periods. In the 27 extensive control of the 28 extensive control of the 2																									
			9 6	ssa	ys.	_	-	_	-	-			7	9.	-		-	_	_	_	-	_	_	_	
Goal Tr 4 3 2	ackin	g:	E	E		E	E	E	E	E	E			E			E		E	E		E	E	E	
0 A	В	С	D	E	F	G	Н	-	J	K	L	м	N	0	P	Q	R	S	т	U	v	w	Х	Y	z
A: Fo B: 20 C: D: E: G: H:	12 1	1 C					2		V									V: V:	=						
									F	IA l	ND	οι	JT	PA	G	≣ 1	4								

Day #1 Learning Outcomes...

- o Gain an awareness of the research regarding classroom assessment.
- o Understand the differences among obtrusive, unobtrusive, and studentgenerated assessments and how to use each in the classroom.
- $\circ\,$ Learn essential practices for classroom assessment:
 - 1) Identify priority standards for informing classroom assessment development.
 - 2) Provide clear understanding of the learning goal through proficiency scale development.
 - 3) Provide instruction that focuses on the learning goal.4) Provide frequent and meaningful feedback.

 - 5) Provide opportunities for students to set goals, reflect on learning, and track their own progress.
- Learn about common assessment development for monitoring student progress to essential content.
- Learn data analysis practices related to classroom assessment.

888.849.0851 marzanoresearch.com

HANDOUT PAGE 2



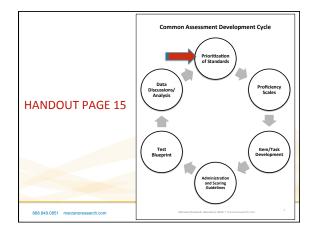
Three Types of Assessment

Obtrusive

o Formalized, interrupt the normal flow of activity in the classroom -pencil/paper tests, projects, quiz

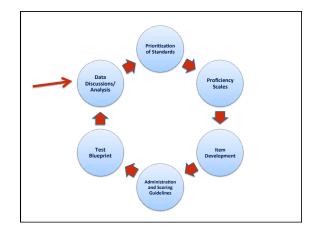
Common assessment is a specific obtrusive assessment.





A common assessment is an important monitoring tool regarding student learning...let's establish some common understanding about it!

#1	How does developing and administering common assessments support more efficient use of time?
#2	Why are team developed common assessments more equitable?
#3	What is the benefit of comparing the performance of students in one classroom with the performance of students in another classroom?
#4	How does common assessment enhance supporting students who do not learn the content?
888.849.0851	marzanoresearch.com MARZANO Research



Typically, a common asse results in data discussions to next steps in the instruction process.	o inform
888.849.0851 marzanoresearch.com	MARZANO Research

Student performance data is compiled and made available for our examination.

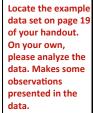
We have allocated time for data discussions.

We use student performance data to make instructional decisions.

888.849.0851 marzanoresearch.com

MARZANO Research







Share your observations with your table partners. Use these observations to complete step 3.



As table partners, <u>write</u> two or three action steps that might result from the data analysis process.

